

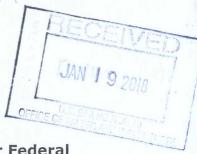




NPDES # for your Facility:

13008

Annual Report of Operations for Year 2017



To comply with NPDES General Permit No. WAG130000 for Federal Aquaculture Facilities and Aquaculture Facilities Located in Indian Country within the Boundaries of the State of Washington

Facility Name: Winthrop 1	Jational Fish Hatchery
Operator Name (Permittee): (/n//FCd Stat	es Fish and Wildlife Service
Address: - Physical - 45-	CS Fish and Wildlife Service. 3A Twin Lakes Road inthrop, WAL, 98862
Mailing - Winth	hrop NFH 4129 rop, WA, 98862
Email: bob_gerwig	Dhanai
Owner Name (if different from opera	
Email:	Phone:
Best Management Pra	ctices (BMP) Plan
Has the BMP Plan been reviewed this	s year? Yes No
Has the BMP Plan been reviewed this	rents of the General Permit? Yes \(\Bar{\text{No}} \) No
Has the BMP Plan been reviewed this Does the BMP Plan fulfill the requirer Summarize any changes to the BMP	rents of the General Permit? Yes \(\sum \) No Plan since the last annual report. Attach additional pages if necessary.
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Operations and Production

Total harvestable weight produced in the past calendar year in pounds (lbs): 83, 984 /65.

Pounds of food fed to fish during the maximum month:

March 2017 - 15,343 /65.

List the species grown or held at your facility and the annual production of each in gross harvestable weight. If fish were released rather than harvested, list the weight at time of release.

Species	Fish Produced	Receiving Water(s) to which Fish were Released	Month <u>Released</u> / Spawned
Summer Steelhood	39,739	Methow River	May
Coho Salmon	20,900	Methon River	May
Spring Chinook	23,345	Methow River	April
<i>'</i> J			

Fill in the table below with production numbers from the past year. List the **maximum** amount of fish on-site and the maximum amount of food fed **per month**.

Month	Total Fish (lbs)	Fish Feed (lbs)	Month	Total Fish (lbs)	Fish Feed (lbs)
January	47,589	3,385	July a	15,386	4,294
February	52,079	3,641	August	22,835	6,362
March	80,885	15,343	September	32,108	7,931
April	94,882	9.650	October	40,327	5,135
Мау	6,170	1,645	November	44,306	3,563
June	10,053	3,070	December	46,386	1,857

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Solid Waste Disposal

Describe the solid waste disposed of during the calendar year (including fish mortalities).

Type of Solid Disposed	Date Disposed	Location Disposed
Daily Fish Mortalities	Daily	Buried in station "mort" pit Buried on-Station
Excess Fish Feed Spawned Adult Carcasses	May 2017 August November 2017	Ruried in Station
Additional Comments:		

Fish Mortalities

Include a description and the dates of mass mortalities in the past year (more than 5% per week). Attach additional pages, if necessary. Include total mortalities from all causes.

Date	Cause of Deaths	Steps Taken to Correct Problem	Pounds of Fish
None .			
1			
1			
dditional Comme	ents:		

Noncompliance Summary

Include a description and the dates of noncompliance events (including spills), the reasons for the incidents, and the steps taken to correct the problems. Attach additional pages, if necessary.

- Exceeded Total Suspended Solids effluent
parameter by 0.2 mg/Liter for November
2017. This exceedance was most likely
due to a large number of waterfowl
(>30) temporarily residing in and around
the station's settling pond. This was
an unusual event and these migratory
birds have since moved on. Staff have
installed several imitation coyotes a owls
to mimic potential predators. These actions
have kept the presence of diving waterfowl
Megligible.

Inspections & Repairs for Production & Wastewater Treatment Systems

Date Inspected	Date Repaired	Description of System Inspected and/or Repaired
	10/2-3/2017	Settling Pond Clean-Out



Aquaculture Drugs and Chemicals

Please indicate whether you used each drug/chemical during the past calendar year. Describe the use of each drug/chemical in more detail on the following pages.

Used in the past year?	Drug or Chemical
□ Yes ☑-No	Azithromycin
□ Yes □ No	Chloramine-T: See additional reporting requirements on page 7
□ Yes No	Chlorine
□ Yes □ No	Draxxin
□ Yes	Erythromycin - injectable
□ Yes ☑-No	Erythromycin - medicated feed
□ Yes No	Florfenicol (Aquaflor)
Yes □ No	Formalin - 37% formaldehyde: See additional reporting requirements on page 7
□ Yes ☑No	Herbicide - describe:
□ Yes No	Hormone - describe:
□ Yes Þ\No	Hydrogen Peroxide: See additional reporting requirements on page 7
¥Yes □ No	Iodine: See additional reporting requirements on page 7
□ Yes No	Oxytetracycline
□ Yes	Potassium Permanganate: See additional reporting requirements on page 7
□ Yes No	Romet
□ Yes	SLICE (emamectin benzoate)
□ Yes No	Sodium Chloride - salt
☐ Yes	Vibrio vaccine
☐ Yes	Other:
□ Yes □ No	Other:

Aquaculture Drugs and Chemicals (cont'd)

Describe all drug and/or chemical treatments that occurred during the year. Fill out the information below for each drug or chemical, plus page 7 for water-borne treatments. Attach additional pages as necessary.

Brand Name: Parasit	e-S	Generic Name: Formalin (.	37% Formaldahyde
Reason for use:	Fungal Growth	1	odstack
Preventative/Prophylactic As-needed	Total quantity of formulated product per treatment (specify units): 3.5 U.S. Gal.	Total quantity of formulated (specify units):	100
Date(s) of treatment: 03// Used every other	7 - 04/17, 07/17 day while holding	-> 08/17,10/17-11/19 g broodstock	Total number of treatments in past year:
Maximum daily volume of treated water: 18,000 gallons	Treatment concentration (specify units): 193 PPM	Duration and frequency of treat	ther day
Method of application:	☐ Static Bath Flow-through	☐ Medicated Feed ☐ Other (describe):	
Location in facility chemical was used (check all that apply):	☐ Raceways ☐ Incubation building	Ponds Off-line settling basin	Nother (describe): Adult Holding Facility
Where did water treated with this chemical go? (check all that apply):	☑ Discharged w/o treatment ☐ Settling basin	☐ Septic System ☐ Publicly owned treatment works	☐ Other (describe):
Provide any additional informat	ion about how this chemical was t	used and/or special pollution pr	revention practices during use:
Brand Name: Parasite	- S	Generic Name: Formalin (3	7º/o Formaldahyde
Reason for use:	0	Formalin (S	7% Formaldahyde
Tarasite	Total quantity of formulated product per treatment:	Tethyophthi Total quantity of formulated property units):	irius multifilis
Reason for use: Treatmen	Total quantity of formulated product per treatment: 2.0 U.S. gallons	Tethyophthi Total quantity of formulated property units):	product used in past year
Reason for use: Treatment Preventative/Prophylactic As-needed	Treatment concentration (specify units):	Total quantity of formulated graphics: Total quantity of formulated graphics: 52 g 701 > 09/04/2017 Duration and frequency of treatments	product used in past year allon S Total number of treatments in past year:
Reason for use: Treatment Preventative/Prophylactic As-needed Date(s) of treatment: 8/2: Maximum daily volume of treated water:	Total quantity of formulated product per treatment: 2.0 U.S. gallons Thru 8/30 4 09 Treatment concentration (specify units):	Total quantity of formulated (specify units): 52 9	product used in past year allon S Total number of treatments in past year: 26 atment(s):
Reason for use: Treatment Preventative/Prophylactic As-needed Date(s) of treatment: 8/25 Maximum daily volume of	Total quantity of formulated product per treatment: 2.0 U.S. gallons Thru 8/30 4 09 Treatment concentration (specify units):	Total quantity of formulated graphics: 52 g	product used in past year allons Total number of treatments in past year: 26 atment(s):
Reason for use: Treatment Preventative/Prophylactic As-needed Date(s) of treatment: 8/25 Maximum daily volume of treated water: 36,000 U.S. Gal.	Treatment concentration (specify units): Static Bath	Tethyophthi Total quantity of formulated properties: 529 101 > 09/04/2017 Duration and frequency of treatments 4 hours per treatments Medicated Feed	product used in past year allons Total number of treatments in past year: 26 atment(s):
Reason for use: Treatment Preventative/Prophylactic As-needed Date(s) of treatment: 8/25 Maximum daily volume of treated water: 36,000 U.S. Gal. Method of application: Location in facility chemical was used	Treatment concentration (specify units): Static Bath Raceways	Duration and frequency of treatments Heavis per treatments Medicated Feed Other (describe):	product used in past year allon S Total number of treatments in past year: 26 atment(s):

Aquaculture Drugs and Chemicals (cont'd)

Describe all drug and/or chemical treatments that occurred during the year. Fill out the information below for each drug or chemical, plus page 7 for water-borne treatments. Attach additional pages as necessary.

Brand Name: Ovadine		Generic Names	OVP Indine
Reason for use: Disin	fection of Fert	ilized Fish E	995
Preventative/Prophylactic	Total quantity of formulated product per treatment (specify units): //25 m/	Total quantity of formulated p (specify units):	oroduct used in past year
Date(s) of treatment: 4/12/8/28, 9/05, 10/	14/19, 4/26, 5/03, 5, 123, 10/30, 11/06,	11/13, 11/20	Total number of treatments in past year:
Maximum daily volume of treated water: 30 U.S. gallars	Treatment concentration (specify units):	Duration and frequency of trea / Sminutes per / treatment per	tment(s): treatment Spawn event
Method of application:	Static Bath Flow-through	☐ Medicated Feed ☐ Other (describe):	
Location in facility chemical was used (check all that apply):	☐ Raceways ☐Incubation building	☐ Ponds ☐ Off-line settling basin	Other (describe):
Where did water treated with this chemical go? (check all that apply):	☐ Discharged w/o treatment ■ Settling basin	☐ Septic System ☐ Publicly owned treatment works	☐ Other (describe):
Provide any additional informat	on about how this chemical was u	used and/or special pollution pre	evention practices during use:
Brand Name:		Generic Name	
Brand Name:		Generic Name:	
Brand Name: Reason for use:			
	Total quantity of formulated product per treatment:	Generic Name: Total quantity of formulated p (specify units):	roduct used in past year
Reason for use:		Total quantity of formulated p	roduct used in past year Total number of treatments in past year:
Reason for use: Preventative/Prophylactic As-needed		Total quantity of formulated p	Total number of treatments in past year:
Reason for use: Preventative/Prophylactic As-needed Date(s) of treatment: Maximum daily volume of	product per treatment: Treatment concentration	Total quantity of formulated p (specify units):	Total number of treatments in past year:
Reason for use: Preventative/Prophylactic As-needed Date(s) of treatment: Maximum daily volume of treated water:	Treatment concentration (specify units):	Total quantity of formulated p (specify units): Duration and frequency of trea	Total number of treatments in past year:
Reason for use: Preventative/Prophylactic As-needed Date(s) of treatment: Maximum daily volume of treated water: Method of application: Location in facility chemical was used	Treatment concentration (specify units): Static Bath Flow-through Raceways	Total quantity of formulated p (specify units): Duration and frequency of trea Medicated Feed Other (describe):	Total number of treatments in past year: tment(s):

Aquaculture Drugs and Chemicals (cont'd) Additional Reporting Requirements for Water-Borne Treatments

- If a water-borne treatment was used during the calendar year, Permittees must include detailed records/calculations as an attachment to this Annual Report in order to demonstrate how the maximum effluent concentrations of solution and active ingredient were calculated for each chemical.
- EPA recognizes that water-borne treatments may vary in the volume of the vessels treated, concentration, quantity of product, etc. Permittees must provide the information listed in the following tables for a reasonable worst case (i.e., maximum effluent concentration) scenario, not for each individual treatment.
- Permittees must submit this information and calculate the maximum effluent concentration for each water-borne chemical used during the past calendar year.
- See also Appendix D for the Chemical Log Sheet.

Sta	tic Bath Treatments - Ovadine
Tank Volume	//3
Desired Static Bath Treatment Concentration	75 µg/
Volume of Product Needed	1.125 Liters Produc
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: • 25 pp m Active Ingredient: 0, 02 pp Specify Unit
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	13,850,000 gallons per daspecify Unit
Maximum % of Facility Discharge Treated	0.00021% % of Total Discharg
Flow-	-Through Treatments - Formalia
Tank Volume	229366 Liter
Calculated Flow Rate	// 4/7 Liters/Minut
Duration of Treatment	60 Minute
Desired Flow-Through Treatment Concentration of Product	193 µg/
Amount of Product to Add Initially	0.00378 Liters Produc
Amount of Product to Add During Treatment	ZZ) mL/Minut
Total Volume of Product Needed	/3.63 Liters Produc
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: 573 5.93ppm Active Ingredient: 2 ppm Specify Unit
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	13,850,000 gallons per dayspecify Unit
Maximum % of Facility Discharge Treated	0.12996 % % of Total Discharg

Changes to the Facility or Operations

Describe an	y changes to the facility o	r operations since t	he last annual report.		
No	changes	Schee	last ref	porting.	

Signature and Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly evaluate and gather the information submitted. Based on my inquiry of the person or persons, who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Robert M. Gerwig Ir	Assistant Manager	
Printed name of person signing	Title	
Coal Mits.	01/11/2018	
Applicant Signature	Date Signed	

Submittal Information

Send the complete, signed information, along with any attachments, to the following address:

U.S. EPA Region 10, OWW-191

Washington Hatchery Annual Report

1200 Sixth Avenue, Suite 900

Seattle, WA 98101-3140

Permit No.: WAG-13-0006 Appendix C

Quality Assurance Plan (QA Plan) Certification

Facility Name:	Winthing NFH	
NPDES Permit Nun	nber: WAG-13-0008	

The QA Plan is complete and is available upon request to the EPA.

The QA Plan is being implemented by trained employees.

The QA Plan has been reviewed and endorsed by the facility manager.

The individuals responsible for implementation of the QA Plan have been properly trained.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature:	Title/Company:
Am My	Hatchery Manger / USFWS
Print Name:	Date:
Chris R. Pasky	12/20/17

An existing discharger must submit this certification within 90 days of the effective date of this permit. For a new Permittee, this certification must be submitted no later than the written Notice of Intent to be covered under this permit. The certification must be submitted to the EPA.

Permit No.: WAG-13-0006 Appendix C

Best Management Practices Plan (BMP Plan)

Certification

Facility Name: Win	throp NFH		
NPDES Permit Number:_	WAG-13-0008		

The BMP Plan is complete and is available upon request to the EPA.

The BMP Plan is being implemented by trained employees.

The BMP Plan has been reviewed and endorsed by the facility manager.

The individuals responsible for implementation of the BMP Plan have been properly trained.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature:	Title/Company:		
Maching	Hatchery Manager / USFWS		
Print Name:	Date:		
Chris R. Pastey	12/20/17		

An existing discharger must submit this certification within 90 days of the effective date of this permit. For a new Permittee, this certification must be submitted no later than the written Notice of Intent to be covered under this permit. The certification must be submitted to the EPA.